

Date: Fri, 28 Jan 94 15:01:45 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #83  
To: Info-Hams

Info-Hams Digest                      Fri, 28 Jan 94                      Volume 94 : Issue    83

Today's Topics:

10meters, anyone want to try it?  
    CW filters and DSP-9  
Daily Summary of Solar Geophysical Activity for 26 January  
    DSP Audio Filters  
    Famous hams  
    Ham shop in Burlington, VT??  
Help - your Vertical Ant. experiences.  
    Hy-Gain telephone no.?  
ICOM-R1 frequency shift -- CORRECTION  
    Ioncap source wanted  
    nearby broadcast antennas  
    Nobel Prize to 2 Hams  
Power Line Interference (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.  
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Date: Wed, 26 Jan 94 22:58:41 -0500  
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!cs.utexas.edu!swrinde!  
sgiblab!uhog.mit.edu!xn.ll.mit.edu!noc.near.net!news.delphi.com!  
usenet@network.ucsd.edu  
Subject: 10meters, anyone want to try it?  
To: info-hams@ucsd.edu

While there are no formal calling freqs in the Ten Meter Novice band,  
there are several freqs that are good places to call CQ.

I find 28.400 has a lot of US ops, and 28.495 can get foriegn DXers when the band is in good shape. For CW, 28.150 is also sort of an informal calling freq. 28.135 is used as an AMTOR calling frequency.

73 from Leigh/KM6JE in Santa Barbara.

-----  
Date: Wed, 26 Jan 1994 19:31:04 GMT  
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!  
vixen.cso.uiuc.edu!sdd.hp.com!col.hp.com!srngenprp!alanb@network.ucsd.edu  
Subject: CW filters and DSP-9  
To: info-hams@ucsd.edu

Rajiv Dewan (rdewan@casbah.acns.nwu.edu) wrote:

[I wrote:]

: >Butterworth and Chebyshev filters have flatter passbands and better shape  
: >factors, but at the expense of poorer pulse response (ringing).

: ... there might be more than one source of ringing: ...

: 2. Progressive coloration of background white noise as the filter  
: bandwidth is narrowed. ...

That's right. A very narrow band-pass filter can make broadband noise sound like a raspy tone. I believe that flat-top filters also make this problem worse than Gaussian filters of the same bandwidth.

AL N1AL

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Date: Wed, 26 Jan 1994 21:30:39 MST  
From: sdd.hp.com!vixen.cso.uiuc.edu!howland.reston.ans.net!sol.ctr.columbia.edu!  
destroyer!nntp.cs.ubc.ca!alberta!ve6mgs!usenet@network.ucsd.edu  
Subject: Daily Summary of Solar Geophysical Activity for 26 January  
To: info-hams@ucsd.edu

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DAILY SUMMARY OF SOLAR GEOPHYSICAL ACT

26 JANUARY, 1994

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(Based In-Part On SESC Observational Data)

## SOLAR AND GEOPHYSICAL ACT

-----  
!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 026, 01/26/94  
10.7 FLUX=127.8 90-AVG=105 SSN=090 BKI=1352 4432 BAI=018  
BGND-XRAY=B3.8 FLU1=1.2E+06 FLU10=9.8E+03 PKI=1353 4432 PAI=017  
BOU-DEV=008,025,079,016,058,046,020,017 DEV-AVG=033 NT SWF=00:000  
XRAY-MAX= M1.5 @ 0136UT XRAY-MIN= B3.3 @ 1349UT XRAY-AVG= B7.0  
NEUTN-MAX= +003% @ 0535UT NEUTN-MIN= -001% @ 2350UT NEUTN-AVG= +0.3%  
PCA-MAX= +0.1DB @ 2150UT PCA-MIN= -0.4DB @ 2005UT PCA-AVG= -0.0DB  
BOUTF-MAX=55348NT @ 0758UT BOUTF-MIN=55312NT @ 1929UT BOUTF-AVG=55336NT  
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+065,+000,+000  
GOES6-MAX=P:+122NT@ 1531UT GOES6-MIN=N:-088NT@ 0738UT G6-AVG=+088,+033,-029  
FLUXFCST=STD:130,132,130;SESC:130,132,130 BAI/PAI-FCST=020,015,010/022,018,010  
KFCST=3345 4333 3344 4322 27DAY-AP=004,018 27DAY-KP=1022 2110 1355 3322  
WARNINGS=\*SWF  
ALERTS==\*MINFLR:M1.5/1B@0136,N08W51(7654)  
!!END-DATA!!

NOTE: The Effective Sunspot Number for 25 JAN 94 was 65.0.  
The Full Kp Indices for 25 JAN 94 are: 1o 2o 1+ 1- 2- 1o 1+ 1o

## SYNOPSIS OF ACT

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Solar activity was moderate. Region 7654 (N08W63) produced a long duration M1/SF flare at 26/0136. The event was preceded by a C2/SF which peaked at 26/0118 and was followed by a C6/SF which peaked at 26/0200. The region continues to show growth as it approaches the west limb. Regions 7658 (N12W38) and 7661 (N08E11) have also shown some growth this period. All other regions are stable.

Solar activity forecast: solar activity is expected to be low to moderate due to the continued growth of Regions 7654, 7658, and 7661.

The geomagnetic field has been at quiet to mostly active levels with a brief period of minor storming occurring during the 06-09Z period at middle latitudes and minor to major storming occurring during the 12-18Z time frame at higher latitudes.

Geophysical activity forecast: the geomagnetic field is

expected to be at unsettled to active levels for the next two days due to a favorably positioned coronal hole. Levels should be quiet to unsettled on day three.

Event probabilities 27 jan-29 jan

Class M	45/45/45
Class X	05/05/05
Proton	01/01/01
PCAF	Green

Geomagnetic activity probabilities 27 jan-29 jan

A. Middle Latitudes

Active	25/35/15
Minor Storm	20/10/01
Major-Severe Storm	05/05/01

B. High Latitudes

Active	20/25/20
Minor Storm	35/25/10
Major-Severe Storm	05/05/01

HF propagation conditions were normal over all but the high and polar latitude paths where the effects of the sporadic geomagnetic storming produced periods of poor propagation. Conditions appeared to be improving slightly toward the end of the UTC day. Additional periods of minor signal degradation can be expected over the next day or two as effects from a well placed coronal hole begin to degrade propagation. Deterioration will be strongest (with fair to occasionally very poor) propagation over the high and polar latitude night-sector circuits.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

REGIONS WIT

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
7652	N04W76	220	0110	HSX	02	001	ALPHA	
7654	N09W63	207	0680	DKI	08	014	BET	
7658	N12W38	182	0160	DAO	10	014	BET	
7659	S12W00	144	0010	HSX	02	003	ALPHA	
7661	N08E11	133	0110	DAO	04	008	BET	
7657	N11W91	235					PLAGE	
7660	S09E29	115					PLAGE	

# REGIONS DUE TO RET

NMBR LAT

7648 N07 024

## LISTING OF SOLAR ENERGETIC EVENTS FOR 26 JANUARY, 1994

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
0129	0136	0141	7654	N08W51	M1.5	1B		60	
1232	1232	1232						160	
2227	2237	2241	7654	N10W68	C1.6	SF		320	

## POSSIBLE CORONAL MASS EJECTION EVENTS FOR 26 JANUARY, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
NO EVENTS OBSERVED								

## INFERRED CORONAL HOLES. LOCATIONS VALID AT 26/2400Z

ISOLATED HOLES AND POLAR EXT									
	EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
58	N18W29	S20W36	S10W46	N30W36	191	ISO	POS	015	10830A
59	N59E19	N28W18	N30W21	N59E19	161	EXT			

## SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
25 Jan:	0057	0117	0135	C1.8	SF	7654	N08W34			
	0154	0158	0221		SF	7654	N08W43			
	0340	0345	0348	C1.2	SF	7658	N13W12			
	0543	0546	0551	B6.7						
	0810	0814	0819	B6.4	SF	7654	N11W37			
	1256	1305	1307	B7.6	SF	7661	N06E31			
	1351	1355	1407	B9.9	SF	7654	N11W41			
	1419	1422	1429		SF	7654	N09W47			
	1442	1446	1452	C1.1						
	1459	1505	1510	C1.2	SF	7654	N08W42			
	1525	1607	1619	C1.1	SF	7658	N12W20			
	1639	1642	1647	C1.4	SF	7654	N10W49		27	34
	1808	1814	1819	C2.7					66	57
	1820	1836	1853	M1.6	1N	7654	N09W48	28	85	36
	2007	2007	2010		SF	7654	N11W49			

2040	2044	2051	C3.1	SF	7654	N10W48	37	210	310
2057	2057	2104		SF	7654	N11W51			
2147	2157	2201	B9.2	SF	7654	N10W49			
2228	2233	2238	C1.2	SF	7654	N06W49			
2311	2315	2320		SF	7654	N11W53			
2347	2352	0005	C1.3						

#### REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7654:	5	1	0	13	1	0	0	0	014	(66.7)
Region 7658:	2	0	0	2	0	0	0	0	002	( 9.5)
Region 7661:	0	0	0	1	0	0	0	0	001	( 4.8)
Uncorrelated:	3	0	0	0	0	0	0	0	004	(19.0)

Total Events: 021 optical and x-ray.

#### EVENTS WIT

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations
25 Jan:	0340	0345	0348	C1.2	SF	7658	N13W12	III,Continuum
	1351	1355	1407	B9.9	SF	7654	N11W41	III
	1639	1642	1647	C1.4	SF	7654	N10W49	V
	1820	1836	1853	M1.6	1N	7654	N09W48	II

#### NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,
Spray	= Limb Spray,

Surge       = Bright Limb Surge,  
EPL         = Eruptive Prominence on the Limb.

\*\* End of Daily Report \*\*

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Date: Mon, 24 Jan 94 20:00:00 -0500  
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!  
sol.ctr.columbia.edu!news.columbia.edu!psinntp!psinntp!channel1!  
jack.treger@network.ucsd.edu  
Subject: DSP Audio Filters  
To: info-hams@ucsd.edu

CO>I have an FT-990. I also have the Timewave DSP-59. If you liked what the  
CO>SCAF filters in the 990 did, the DSP-59 will knock your socks off. On CW  
CO>it can go down to 50Hz bandpass, all you hear is the tone with virtually  
CO>no ringing!! But it really shines on SSB with its 2 noise reduction and  
CO>heterodyne elimination algorithms. Try one some time, you'll be amazed!!  
CO>I have had the DSP-59 for about 8 months, and now I can't do without it!

Do you know how the DSP-59 compares to the JSP NIR-10 unit?

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SLMR 2.1a -

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Date: Fri, 28 Jan 1994 02:49:06 GMT  
From: usc!howland.reston.ans.net!cs.utexas.edu!utnut!nott!cunews!  
freenet.carleton.ca!FreeNet.Carleton.CA!ab510@network.ucsd.edu  
Subject: Famous hams  
To: info-hams@ucsd.edu

In a previous article, mosier@fagan.uncg.edu (Stephen Mosier) says:

>In article <2hmper\$ppo@solaris.cc.vt.edu> benchoff@groupw.cns.vt.edu  
>(Phil Benchoff) writes:

>>I know this has been discussed several times on this list. I am  
>>looking for a list of famous hams.

>

>Here's my list, gleaned from others:

>

>SOME FAMOUS HAMS...

>

K2LSD	Timothy Leary
W1RF	Reginald Fessenden
WA3HR	Babe Ruth

K2RCA	General Sarnoff
G1LIZ	Queen Elizabeth
R1JOE	Josef Stalin
A1USA	Uncle Sam
K3GMC	Pres. General Motors
N0RM	Gen Norman Swartzkof
KA7JJ	Jesse James
M4BEL	Ma Bell
CL0WN	Charlie Chaplin
K5LEE	Lee Iaccocca
K1LL	Charles Ng
CH0P	Jeffrey Dahmer
F1ZZ	CEO Coca-Cola
T0KY0	Emperor Hirohito
E1EIO	Old McDonald
H0HO	Santa Claus
W7KID	Billy The Kid

--

GEORGE ATTALLAH - VE3KIA -OTTAWA CANADA  
"THE LAST SURVIVOR OF THE GROUP OF ONE"  
"THE ONLY ONE IN CAPTIVITY"

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Date: 28 Jan 94 20:30:52 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Ham shop in Burlington, VT??  
To: info-hams@ucsd.edu

In Info-Hams Digest V94 No. 78 (item 5) emba-news.uvm.edu!wetzel@uunet.uu.net writes:

>Can anyone tell me of a Ham radio shop selling ARRL books or other repeater  
>maps and eventually 2M handhelds in the Burlington, VT area.  
>I have seen adds in 73 but shipping of \$5 for a \$6 book seems excessive.  
>  
>Thanks  
>  
>Dan Wetzel  
>

Subject: HAM Book store...

E-Mail won't make it to you at emba-news.uvm.edu!wetzel@uunet.uu.net so....

Dan,

In the back of the bookstore in the Ethan Allen Shopping Plaza is a



fairly large selection of ARRL publications. What they don't have they will order and you pay the price marked on the book. I don't remember the name of the store off hand (North Ave. Books or something like that). I am a local call for you, so if you have questions call me.

The Plaza is on North Avenue about 2.0 miles west of Burlington High School.

ron

Ron Rossi

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/=====/  
/ IBM Microelectronics           Internet:  rrossi@vnet.ibm.com  /  
/ H/P ASIC SRAM Design          VNET:    RROSSI at BTVLABVM    /  
/ Dept N93 Bldg 861-2           Voice:   802/769-7477          /  
/ 1000 River Road              RF:      N1PBT                  /  
/ Essex Junction, VT 05452-4299 /  
/                               /  
/ "I work for IBM, I don't represent its views!" /  
/                               /  
/=====/
```

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Date: 28 Jan 94 00:25:21 GMT  
From: ogicse!news.tek.com!cascade.ens.tek.com!not-for-mail@network.ucsd.edu  
Subject: Help - your Vertical Ant. experiences.  
To: info-hams@ucsd.edu

In article <1994Jan27.134222.1@tntvax> ddb@tntvax.nttrs.com (Dan Bowker [x 6587]) writes:

>I posted this on the ...antenna group, but more people read this so...

>

>I'm looking to buy this weekend a ground independent vertical for HF. I have  
>a very limited area (can go up as far as I want) and limited funds. 40m and  
>80m would be a big + but not a requirement.

>

I have been running a Butternut HF6V for 9 years or so and believe it is one of the best all band verticals around. Don't know too much about the others but the R5 is a vertical dipole and as such does not have as much gain as a quarter wave ground plane or similar antenna. Note the Butternut as well as any other ground plane style antenna require radials, ground rods, etc.

Terry Burge  
KI7M



Subject: Ioncap source wanted  
To: info-hams@ucsd.edu

I'm looking for the source for Ioncap, which I understand to have been developed by the US Gov't and be in the public domain. I suppose I could get it through NTIS on 9-track tape for a hundred or so bucks, but I'm hoping someone knows of an ftp site for it.

While we're at it, how about the source for minimuf?

Thanks,  
-Steve

Steve Byan	internet: steve@hicomb.hi.com
Hitachi Computer Products (America), Inc.	
1601 Trapelo Road	phone: (617) 890-0444
Waltham, MA 02154	FAX: (617) 890-4998

-----  
Date: Wed, 26 Jan 1994 19:56:59 GMT  
From: mvb.saic.com!unogate!news.service.uci.edu!usc!sdd.hp.com!col.hp.com!  
srgenprp!alanb@network.ucsd.edu  
Subject: nearby broadcast antennas  
To: info-hams@ucsd.edu

Jack GF Hill (root@jackatak.raider.net) wrote:  
: This may be a case where the "new" and "great" technology is working  
: against you. The typical solid-state ricebox of today is NOT built to  
: operate in the near field of a strong RF source...

: An older "hollow-state" rig will not have the same problems, ...

The tube rigs weren't perfect either. I remember my old 75A2 was useless on the 160 meter band because of strong local BC stations. You could hear some crud on 80 meters too, mostly harmonics.

AL N1AL

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Date: 28 Jan 1994 17:36:16 GMT  
From: dog.ee.lbl.gov!agate!hil1mac39.cchem.berkeley.edu!user@network.ucsd.edu  
Subject: Nobel Prize to 2 Hams  
To: info-hams@ucsd.edu

In article <17088.jahern@geohub.gcn.uoknor.edu>,  
<jahern@geohub.gcn.uoknor.edu> wrote:

>  
> The December, 1993, issue of Physics Today, published by the American  
> Institute of Physics, has an article about Russell Hulse and Joseph Taylor,  
> who recently received the Nobel prize in physics for their discovery of  
> the first binary pulsar.

I believe there was also an article about these two in a fall issue of QST.

Bob

-----  
Date: Wed, 26 Jan 1994 20:01:22 GMT  
From: mvb.saic.com!unogate!news.service.uci.edu!usc!elroy.jpl.nasa.gov!sdd.hp.com!  
col.hp.com!srngenprp!alanb@network.ucsd.edu  
Subject: Power Line Interference  
To: info-hams@ucsd.edu

Doug Snowden (drs@ccd.harris.com) wrote:  
: For the past 3 years I have been trying to track down some noise that appears  
: to be coming from the power lines. ...

: The noise has a cyclic period of about 1.5 seconds on and  
: 1.5 seconds off. This part doesn't vary. If I have the noise, it has this  
: period.

The above raises my suspicions that the noise may not be originating in the  
power pole itself. What other buildings are fed from the same transformer  
that is on that pole? Do any of them have some electrical device with a  
3-second on/off cycle time?

AL N1AL

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Date: 26 Jan 1994 19:27:08 GMT  
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!  
cs.utexas.edu!swrinde!elroy.jpl.nasa.gov!newncar!noao!CS.Arizona.EDU!  
organpipe.uug.arizona.edu!helium!hlester@network.  
Subject: Power Line Interference  
To: info-hams@ucsd.edu

In article <1994Jan26.145524.6118@ke4zv.atl.ga.us>,  
Gary Coffman <gary@ke4zv.atl.ga.us> wrote:  
>In article <1994Jan25.140537.16951@ccd.harris.com> drs@ccd.harris.com (Doug  
Snowden) writes:  
>>Please don't tell me to go beat on the pole!

>

>Well that's what the power company is going to do. Many problems like  
>this are due to something coming loose mechanically on the pole. Jarring  
>it is the way they pin it down. This \*is\* best left to professionals,

An employee of our power company (Tucson Electric Power) is employed to track down power line interference by using radio direction finding equipment. He has a variety of radios in his truck, as well as a hand-held yagi (that looks as if it's cut for around 450 MHz). He is getting to be really good at this, and has recently helped me out by getting some ten or so poles in my neighborhood repaired. No more noise!

The point of all this is that taking a sledgehammer to a pole is not the only way to pin down the noise.

Howard KE7QJ

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Date: Tue, 25 Jan 1994 17:07:11 GMT  
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!  
sol.ctr.columbia.edu!news.columbia.edu!psinntp!psinntp!ctp!nchak@network.ucsd.edu  
To: info-hams@ucsd.edu

References <1994Jan14.005918.1@auvax1.adelphi.edu>, <2h7a43\$89b@crl2.crl.com>,  
<1994Jan15.161325.16129@ke4zv.atl.ga.us>  
Subject : Mail order info for multi-system VCR, FAQ

I am considering buying a multi-sytem VCR to take to India. It must play NTSC and PAL. Is there a list of mail-order places that might stock an item such as this?

I tried J&R Music World, they list an AIWA for \$380 and another for \$500. B&H has some professional stuff for \$1850 (too much for me).

Also, where is the FAQ for this newsgroup?

Thanks,

Navaneeth

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Navaneeth Chakravarti, x456 Cambridge Technology Partners  
e-mail: nchak@ctp.com Voice: (517) 372-8400  
chakrava@egr.msu.edu (617) 374-8456  
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End of Info-Hams Digest V94 #83

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